

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1-3. (canceled)

4. (new) A method of measuring size and height of bubbles obtained from a drilling sample comprising:

passing a grinded sample having fine particles, with the grinded sample being obtained by grinding a cutting sample taken from an earth drilling process, through a first sieve having a first size;

calculating a statistic average of a mass weight of the grinded sample which passes through the first sieve;

comparing the statistic average of the mass weight against the first size of the first sieve;

passing the grinded sample through a second sieve having a second size which is different than the first size;

calculating a statistic average of a mass weight of the grinded sample which passes through the second sieve; and

comparing the statistic average of the mass weight of the grinded sample which passes through the second sieve against the second size of the second sieve.

5. (new) The method of claim 4 further comprising:

passing the grinded sample through a third sieve having a third size different than the first size and the second size;

calculating a static average of a mass weight of the grinded sample which passes through the third sieve; and

comparing the static average of the mass weight of the grinded sample which passes through the third sieve against the third size of the third sieve.

*Remember*  
126 ~~116~~ (new) The method of claim 4, wherein the cutting sample is grinded with a mortar and pestle.